

## CLAIMS

What is claimed is:

- 1           1.     A computer readable medium integrated into a removable  
2 cartridge for an image forming device, the medium being programmed with a  
3 plurality of image enhancement data sets and data set selection criteria for  
4 selecting from among the image enhancement data sets.
- 1           2.     The medium of Claim 1, wherein the image enhancement data  
2 includes a condition associated with data identifying an image enhancement  
3 technique and a parameter for implementing the image enhancement  
4 technique.
- 1           3.     The medium of Claim 1, wherein the image enhancement data  
2 includes a condition associated with a parameter for implementing an image  
3 enhancement technique.
- 1           4.     The medium of Claim 3, wherein the removable cartridge includes  
2 a printing component, and the medium is formatted to store a state variable  
3 reflecting a state of the printing component and wherein the data set selection  
4 criteria represents electronic data that can be processed with the state variable  
5 to select from among the image enhancement data sets.
- 1           5.     A computer readable medium integrated into a removable  
2 cartridge that includes a printing component for an image forming device, the  
3 medium being formatted to store a state variable reflecting a state of the printing  
4 component and programmed with a plurality of image enhancement data sets  
5 and data set selection criteria that can be processed with the state variable to  
6 select from among the image enhancement data sets.

1           6.     A removable cartridge for an image forming device, comprising:  
2           a printing component that can be utilized by the image forming device to  
3 assist in producing a printed image; and  
4           a memory programmed with a plurality of image enhancement data sets  
5 and data set selection criteria for selecting from among the image enhancement  
6 data sets.

1           7.     The removable cartridge of Claim 6, further comprising a reservoir  
2 for holding imaging material, and wherein the printing component can be utilized  
3 by the image forming device to assist in producing a printed image using  
4 imaging material from the reservoir.

1           8.     The removable cartridge of Claim 7, wherein the memory is  
2 formatted to store a state variable reflecting a state of the printing component,  
3 and wherein the data set selection criteria represents electronic data that can be  
4 processed with the state variable to select from among the image enhancement  
5 data sets.

1           9.     The removable cartridge of Claim 7, wherein the data set selection  
2 criteria comprises a look-up table containing a plurality of entries, each entry  
3 having data representing a state condition and data identifying an image  
4 enhancement data set.

1           10.    A removable cartridge for an image forming device, comprising:  
2           a printing component that can be utilized by the image forming device to  
3 assist in producing a printed image; and  
4           a memory formatted to store a state variable reflecting a state of the  
5 printing component and programmed with a plurality of image enhancement  
6 data sets and data set selection criteria that can be processed with the state  
7 variable to select from among the image enhancement data sets.

- 1           11.    An image enhancement method, comprising:  
2            selecting an image enhancement data set from a plurality of image  
3   enhancement data sets contained in a memory integrates into a removable  
4   cartridge for an image forming device; and  
5            implementing an image enhancement technique according to the  
6   selected image enhancement data set.
- 1           12.    The method of Claim 11, wherein the selected image  
2   enhancement data set includes data identifying the image enhancement  
3   technique and implementing comprises implementing the image enhancement  
4   technique identified by the image enhancement data set.
- 1           13.    The method of Claim 11, wherein the selected image  
2   enhancement data set includes a parameter and implementing comprises  
3   implementing the image enhancement technique according to the parameter.
- 1           14.    The method of Claim 11, further comprising obtaining a state  
2   variable reflecting a state of a printing component and wherein selecting  
3   comprises selecting an image enhancement data set according to the state  
4   variable.
- 1           15.    The method of Claim 11, wherein selecting comprises processing  
2   data set selection criteria to select the image enhancement data set from among  
3   the plurality of image enhancement data sets.
- 1           16.    The method of Claim 15, further comprising obtaining a state  
2   variable reflecting a state of a printing component and wherein selecting  
3   comprises processing data set selection criteria with the state variable to select  
4   the image enhancement data set from among the plurality of image  
5   enhancement data sets.

1           17.    A computer readable medium having instructions for:  
2           selecting an image enhancement data set from a plurality of image  
3   enhancement data sets contained in a memory integrated into a removable  
4   cartridge for an image forming device; and  
5           implementing an image enhancement technique identified by the  
6   selected image enhancement data set.

1           18.    The medium of Claim 17, wherein the selected image  
2   enhancement data set includes a parameter and the instructions for  
3   implementing include instructions for implementing the image enhancement  
4   technique according to the parameter.

1           19.    The medium of Claim 17, having further instructions for obtaining a  
2   state variable reflecting a state of a printing component and wherein the  
3   instructions for selecting include instructions for selecting a image enhancement  
4   data set according to the state variable.

1           20.    The medium of Claim 17, wherein the instructions for selecting  
2   include instructions for processing data set selection criteria to select the image  
3   enhancement data set from among the plurality of image enhancement data  
4   sets.

1           21.    The medium of Claim 20, having further instructions for obtaining a  
2   state variable reflecting a state of a printing component and wherein the  
3   instructions for selecting include instructions for processing data set selection  
4   criteria with the state variable to select the image enhancement data set from  
5   among the plurality of image enhancement data sets..

- 1           22.    An image enhancement system for an image forming device,
- 2    comprising default image enhancement data, and execution logic capable of
- 3    determining if cartridge image enhancement data is present and implementing
- 4    the cartridge image enhancement data, otherwise implementing the default
- 5    image enhancement data.